

1 CLAIMS

2 What is claimed is:

- 3 1. A method, performed by a retail purchaser of a previously-purchased remote-controlled
4 retail electronic entertainment device, for retro-fitting said remote-controlled device to
5 provide an increased acceptance angle for an infrared receiver thereof, the method
6 comprising the steps of:
7 purchasing, on a retail basis and subsequent to a previous purchase of said remote-controlled
8 device, a hemispheric lens, the hemispheric lens comprising a lens body, the lens body
9 being fabricated from a dielectric material substantially transparent at an infrared
10 wavelength received by the infrared receiver, the lens body having a substantially
11 hemispheric convex outer surface, a substantially hemispheric concave inner surface, a
12 substantially flat annular surface connecting the inner and outer hemispheric surfaces,
13 and an adhesive layer provided on the annular surface for securing the lens to a face of
14 the remote-controlled retail electronic entertainment device over the infrared receiver
15 thereof; and
16 after purchasing the hemispheric lens, securing the hemispheric lens to the face of the
17 previously-purchased remote-controlled retail electronic entertainment device over the
18 infrared receiver thereof, thereby increasing the acceptance angle over which infrared
19 remote control signals may be received by the infrared receiver.
- 20 2. The method of Claim 1, the dielectric material being substantially clear acrylic plastic.
- 21 3. The method of Claim 1, the adhesive layer comprising double-sided adhesive tape.
- 22 4. The method of Claim 1, the lens body hemispheric inner surface being about $\frac{3}{8}$ inch in
23 diameter and the lens body hemispheric outer surface being about $\frac{1}{2}$ inch in diameter.
- 24 5. The method of Claim 1, the remote-controlled retail electronic entertainment device being a
25 video device.
- 26 6. The method of Claim 5, the video device being a television, a video cassette recorder, a
27 video cassette player, a DVD player, a DVD recorder, a cable television receiver, or a
28 satellite television receiver.
- 29 7. The method of Claim 1, the remote-controlled retail electronic entertainment device being
30 an audio device.

- 1 8. The method of Claim 7, the audio device being a radio, a stereo, a hi-fi system, an audio
2 cassette player, an audio cassette recorder, an audio CD player, an audio CD recorder, a
3 home theatre system, a surround-sound system, an MP3 player, an MP3 recorder, a DVD-
4 audio player, or a DVD-audio recorder.
- 5 9. A method for enabling a retail purchaser of a previously-purchased remote-controlled retail
6 electronic entertainment device to retro-fit said remote-controlled device to provide an
7 increased acceptance angle for an infrared receiver thereof, the method comprising the steps
8 of:
9 selling, on a retail basis to the retail purchaser of the previously-purchased remote-
10 controlled retail electronic entertainment device and subsequent to a previous purchase
11 thereof, a hemispheric lens, the hemispheric lens comprising a lens body, the lens body
12 being fabricated from a dielectric material substantially transparent at an infrared
13 wavelength received by the infrared receiver, the lens body having a substantially
14 hemispheric convex outer surface, a substantially hemispheric concave inner surface, a
15 substantially flat annular surface connecting the inner and outer hemispheric surfaces,
16 and an adhesive layer provided on the annular surface for securing the lens to a face of
17 the remote-controlled retail electronic entertainment device over the infrared receiver
18 thereof; and
19 instructing the retail purchaser of the previously-purchased remote-controlled retail
20 electronic entertainment device to secure the hemispheric lens to the face of said
21 remote-controlled device over the infrared receiver thereof, thereby increasing the
22 acceptance angle over which infrared remote control signals may be received by the
23 infrared receiver.
- 24 10. The method of Claim 9, the dielectric material being substantially clear acrylic plastic.
- 25 11. The method of Claim 9, the adhesive layer comprising double-sided adhesive tape.
- 26 12. The method of Claim 9, the lens body hemispheric inner surface being about $\frac{3}{8}$ inch in
27 diameter and the lens body hemispheric outer surface being about $\frac{1}{2}$ inch in diameter.
- 28 13. The method of Claim 9, the remote-controlled retail electronic entertainment device being a
29 video device.

- 1 14. The method of Claim 13, the video device being a television, a video cassette recorder, a
2 video cassette player, a DVD player, a DVD recorder, a cable television receiver, or a
3 satellite television receiver.
- 4 15. The method of Claim 9, the remote-controlled retail electronic entertainment device being
5 an audio device.
- 6 16. The method of Claim 15, the audio device being a radio, a stereo, a hi-fi system, an audio
7 cassette player, an audio cassette recorder, an audio CD player, an audio CD recorder, a
8 home theatre system, a surround-sound system, an MP3 player, an MP3 recorder, a DVD-
9 audio player, or a DVD-audio recorder.

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